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SEVENTH BI-MONTHLY PROGRESS REPORT
UNIVERSITY OF ALASKA
ERTS PROJECT 110-4

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CR-135554

October 10, 1973

- A. TITLE OF INVESTIGATION: Survey of the Seasonal Snow Cover in Alaska
- B. PRINCIPAL INVESTIGATOR/GSFC ID: Gunter E. Weller/UN681
- C. PROBLEMS IMPEDING INVESTIGATION: None
- D. PROGRESS REPORT:

1. Accomplishments during reporting period: We have continued our analysis of the ERTS data from the North Slope and from the northern foothills of the Alaska Range using the VP8 image analyzer. We are investigating the breakup on the North Slope using climatological, radiative, hydrological, aircraft and satellite data. Our field work included two visits to Barrow and Prudhoe Bay on the North Slope to check various meteorological equipment, and one visit to the Alaska Range for observations of the distribution of the new snow at the end of September.

2. Plans for next reporting period: We plan to finish our analysis of the Spring 1973 breakup. We will start the analysis of the Fall 1973 buildup of the snow cover with the emphasis on a comparison with the buildup during the previous year. We have ordered several digital tapes from NASA intended for displays on the CDU to delineate areas of different snow characteristics.

- E. SIGNIFICANT RESULTS: None
- F. PUBLICATIONS: A. In preparation: 'Buildup of the seasonal snow cover in 1972 and 1973.' 'A study of the seasonal snow and ice of Alaska by ground, aircraft and satellite observations.' Paper presented at the 24th Alaskan Science Conference, August 15-17, 1973; to be published in Conference Proceedings. 'Satellite observations of the seasonal snow cover on the North Slope, Alaska' Abstract sent to AGU Fall Annual Meeting, San Francisco, December 1973.
- B. IN PRESS: None
- C. PUBLISHED: Benson, C., 'Snow cover surveys in Alaska from ERTS-1 data', paper presented at the ERTS-1 Symposium at New Carrollton, Maryland, on March 5-9, 1973.
- G. RECOMMENDATIONS: None
- H. CHANGES IN STANDING ORDER FORMS: None
- I. ERTS IMAGE DESCRIPTIONS FORMS: None
- J. DATA REQUEST FORMS: None

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Unclas
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COVER IN ALASKA Bimonthly Progress
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